

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>20400446KC</b>	<b>FOR FURTHER ACTION</b>		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. <b>PCT/SG2004/000068</b>	International filing date ( <i>day/month/year</i> ) <b>23 March 2004</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) <b>2 April 2003</b>	
Applicant <b>CHUA, Beng San et al</b>			

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of **6** sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b.  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

Certain claims were found unsearchable (See Box No. II).

Unity of invention is lacking (See Box No. III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No.1

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b.  none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG2004/000068

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:

because they relate to subject matter not required to be searched by this Authority, namely:

2.  Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3.  Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

**Claim 1:** Relates to a display map having a zooming method in which the scale of the map displayed is determined by the number of entities present in the map. The determination of the number of entities present and the comparison to a pre determined threshold is the first special technical feature.

(Continued In *Supplemental Box*)

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

## Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG2004/000068

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: G01C 21/30

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DWPI: (Map+ OR Cartography OR Navigation).AND (Zoom+ OR Scal+) AND Digital

USPTO: Digital AND Map\$ AND Zoom\$

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Derwent Abstract Accession No. 2003-408797/39, Class P85;T01, JP 2003076267-A (NIPPON) 14 March 2003	
A	Derwent Abstract Accession No. 2003-385446/37, Class P85;T01, JP 2003058293-A (OOMOTO) 28 February 2003	
X	Derwent Abstract Accession No. 2002-613805/66, Class P85;T01, JP 2002216143-A (JO) 2 August 2003. See Whole Abstract	19-23
A	US 6321158 B1 (DELORME et al.) 20 November 2001 See Abstract, Lines 24-39 - Column 49, Lines 11-24 - Column 74	

 Further documents are listed in the continuation of Box C See patent family annex

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

24 May 2004

Date of mailing of the international search report

31 MAY 2004

Name and mailing address of the ISA/AU

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG2004/000068

C (Continuation).

## DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5699255 A (ELLIS et al.) 16 December 1997 Abstract, Lines 13-67 - Column 6, Lines 11-67 - Column 7 and Lines 1-51 - Column 8	
A	WO 96/14558 (HILL et al.) 17 May 1996 Abstract and Lines 1-31 - Page 2	
A	US 5084822 A (HAYAMI) 28 January 1992 Abstract and Figures 5a-5b	
A	US 4972319 A (DELORME) 20 November 1990 Abstract	

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/SG2004/000068

**Supplemental Box**

(To be used when the space in any of Boxes I to VIII is not sufficient)

**Continuation of Box No: III**

**Claim 19:** Relates to a display map having two parts in the first part a map is displayed at a first scale and in the second part the map is displayed at a second scale. Displaying the same map side by side at two different scales is the second technical feature.

These groups of claims are not linked as to form a single general inventive concept, that is, they do not share any special technical features. Therefore these claims do not relate to one invention only.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SG2004/000068

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US 6321158	CA 2183842	CA 2257258	CA 2279191				
	CA 2280677	US 5559707	US 5802492				
	US 5848373	US 5948040	US 2003182052				
	WO 9748065	WO 9835311					
US 5699255							
WO 9614558	AU 37396/95						
US 5084822	DE 3842179	JP 1156618	JP 1161111				
	JP 1165918						
US 4972319	EP 0436263	US 5030117					

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX